BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.
Estimate Cost	:	Rs.

QUALITY CONTROL REPORTS TO

Asst. Executive Engineer,
T.Dasarahalli Sub Division,
BBMP, Bangalore.

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QUALITY CONTROL REPORTS FOR

CIVIL WORKS

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2014-15 Date: 02.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ: ಬಿಬಿಎಂಪಿ
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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2014-15 : 02.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014

Date of Testing : 02.07.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	90	4.50	4.50	95.5	90-100
2.36	185	9.25	13.75	86.3	75-100
1.18	450	22.50	36.25	63.8	55-90
600 Micron	475	23.75	60.00	40.0	35-59
300 Micron	515	25.75	85.75	14.3	8-30
150 Micron	205	10.25	96.00	4.0	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2014-15 : 02.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014

Date of Testing : 02.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.98	3.98	96.02	95-100
20	15840	63.36	67.34	32.66	30-70
10	5025	20.10	87.44	12.56	10-35
4.75	2585	10.34	97.78	2.22	0-5

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರಪಾಲಿಕೆ, ಬಿಬಿಎಂಪಿ
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Job No.: CTCE/BBMP/W.No.14/KRIDL/CC Blocks/2014-15 07.07.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Name of the Work : **Technical Manager (West),** KRIDL, Bangalore.

Name of work : Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	05.07.2014	07.07.2014	261.2	3.27	3.2
2	05.07.2014	07.07.2014	262.5	3.28	
3	05.07.2014	07.07.2014	263.1	3.29	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2014-15 27.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2014	27.07.2014	8.152	242.3	10.77
2	20.07.2014	27.07.2014	8.235	252.3	11.21
3	20.07.2014	27.07.2014	8.305	256.3	11.39

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ಶ್ರೀ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗದ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬಿಬಿಎಂಪಿ
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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2014-15

29.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2014	29.07.2014	8.458	256.3	11.39
2	22.07.2014	29.07.2014	8.362	250.3	11.12
3	22.07.2014	29.07.2014	8.223	235.5	10.47

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Job No.: CTCE/BBMP/W.No.14/KRIDL/Pre slab/2014-15

21.07.2014

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

Name of Client	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of work	:	Re-Construction of drains at Sampangi Ramaiah Layout in Ward No.14, BBMP, Bangalore.
Referece	:	BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 30.06.2014
No.of Sample Tested	:	03
Date of Testing	:	21.07.2014
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.393	2501.92	1.60	0.960	25.15	12.81	13.83	13.28	16.60
2	50.00	82.00	0.405	2515.42	1.64	0.965	25.35	12.91	13.94	13.46	16.82
3	50.00	84.00	0.420	2546.48	1.68	0.970	25.85	13.17	14.22	13.79	17.24

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